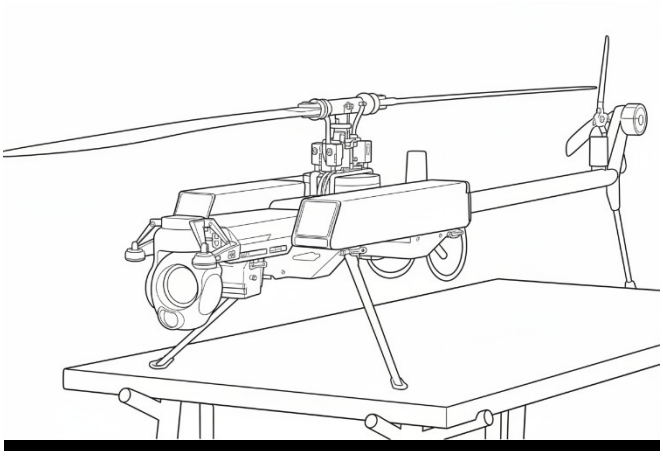
Anduril Ghost X



IDENTITY & DESIGNATION

Official Designation: Ghost X (formerly Ghost 4)
Manufacturer: Anduril Industries (Costa Mesa, California, USA)
Country of Origin: United States
Year Introduced: 2024

CLASSIFICATION

Domain: Air
Category: Military / Special Operations
Sub-Category: Modular AI-autonomous helicopter UAS
Terminal Mode: Recoverable

PHYSICAL SPECIFICATIONS

Weight: ~36 kg (max takeoff) [VERIFY]
Payload Capacity: Modular — ISR, EW, cargo

Form Factor: Single-rotor helicopter with tail rotor

PROPULSION & PERFORMANCE

Propulsion Type: Electric (heavy-lift single rotor)
Max Flight Time: ~60+ minutes [VERIFY]
Noise Signature: Designed for low acoustic signature — “silent” operation

GUIDANCE, NAVIGATION & CONTROL

Control Link: Encrypted mesh network (Anduril Lattice AI platform)
Navigation: GPS + AI-powered autonomous navigation; GPS-denied capable
AI Platform: Lattice — Anduril’s autonomous C2 system; sensor fusion, autonomous target ID
Autonomy Level: Very High — autonomous takeoff, mission execution, landing; minimal operator input
Operator Skill: Low — Lattice simplifies operation to mission-level commands
Fiber-Optic Option: No (but Lattice mesh network provides resilient connectivity)

SENSORS & PAYLOADS

Modular Payloads: EO/IR cameras, multispectral, EW, comms relay, cargo
AI Target Recognition: Lattice provides AI-powered object detection and classification

COUNTERMEASURE VULNERABILITY PROFILE

RF Jamming: LOW — Mesh network with autonomous fallback; no single-point RF failure
GPS Spoofing: LOW — AI visual navigation provides GPS-denied operation
EMI/EMC Attack: MODERATE — Military design but specifics of hardening unknown
Microwave Attack: MODERATE
Laser DEW: MODERATE — Larger target, but can operate at standoff range
Kinetic Intercept: LOW — Low acoustic/visual signature; autonomous evasion possible

Overall Vulnerability Rating: LOW

CRUISE MISSILE CONVERGENCE NOTES

Ghost X represents the most advanced convergence of AI, autonomous navigation, and modular payload architecture in a tactical drone. Its Lattice AI platform provides the kind of autonomous decision-making that next-generation cruise missiles aspire to — autonomous target identification and classification without human input. The mesh network architecture provides resilient C2 without satellite dependency. This platform is what a cruise missile looks like when you make it reusable, AI-powered, and sensor-agnostic.

OPERATIONAL HISTORY

Adopted by US Special Operations Command (SOCOM) and Army. Deployed for perimeter security, long-range ISR, and contested environment operations. Part of Anduril’s broader Lattice ecosystem. Positioned as the US answer to DJI dependency in military applications.

SOURCES & CROSS-REFERENCES

Manufacturer: https://www.anduril.com
Cross-Ref: See: Skydio X10 (AI parallel in commercial space), Lattice C2 system